

Mark Rice

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SUMMARY

Engineering graduate with varied experience in electronic troubleshooting, product validation, repair, refurbishing, inspection, and assembly is seeking an Electronic Engineering position.

SKILLS

Experience soldering fine-pitched surface mount components. Experience troubleshooting circuit boards to the component level. Other skills: Diagnostics, Testing, Medical device repair, IPC soldering, Trained in FDA documentation. Computer skills: Proficient in Windows 10 and Several Linux variations.

SELF-TAUGHT SKILLS

21 years' experience on a variety of Linux operating systems, including systems based on Debian, Fedora, Slackware, SUSE Linux and Arch Linux. Maintain a network of Raspberry Pi's and other computers on a home network, with a focus on the Linux command line and remote system administration using the SSH protocol and VNC tools.

EXPERIENCE

Resource Mfg., Georgetown, KY July 2023 to August 2025

Line Loader, Toyota Tsusho, Georgetown, KY, March 2024 to August 2025

- Load the Advics stations with totes using a pallet jack.
- Shuttle in empty totes for the line to repack brake cylinders, with the goal of helping my team members approach 100% efficiency.
- Remove and replaced cardboard recycling bins as needed.

Kitting Department, Toyota Tsusho, Georgetown, KY, January 2024 to March 2024

- Assembled automotive recall kits for Toyota.
- Cleaned adhesive off of international metal mods (modules) for the purpose of avoiding exporting invasive seeds to Japan.
- The methods implemented were used in other US facilities.

Sorting Department, Penske, Georgetown, KY, March 2024 to August 2025

- Accurately matched numbers & letters.
- Accurately staged and sorted products for loading.
- Maintained a clean and safe work area.

Kitting Department, Toyota Tsusho, Georgetown, KY, January 2024 to March 2024

- Assembled automotive recall kits for Toyota.
- Cleaned adhesive off of international metal mods (modules)

Fanuc America Corporation, Hoffman Estates, IL January 2022 to March 2023

PCB Repair Technician

- Troubleshoot and repair PCB's to the component level, meeting quality and quantity goals as assigned.
- Test various high voltage spindles, servos and power supplies per written procedure.
- Familiar with testing equipment such as power supplies, oscilloscopes, and multimeters.
- Strong soldering skills and ability to read electronic schematics.
- Record the type and quantity of defective circuit boards into the Oracle inventory management system.
- Work cooperatively as a positive contributing team member.

MRV Systems, Wood Dale, IL May 2018 to January 2022

Assembly Technician

- Mechanical, electrical and pneumatic assembly of board sets for several types of floats containing sensors to monitor environmental conditions in the ocean.
- Worked with sub-assemblies from schematics, diagrams, written and verbal instructions.
- Performed board pairing and testing in preparation for finished floats.
- Performed final testing on assembled floats and logged all data received from the Iridium satellite.

Illinois Instruments, Johnsburg, IL Aug. 2012 to January 2018

Electronic Lab Technician

- Test, troubleshoot, and repair the analyzers in preparation for scheduled customer orders.
- Work from schematics, diagrams, written and verbal instructions.

- Support engineering with tests to collect design data or assist in general research work.
- Diagnose gas flow problems in an instrument.
- Perform electronic troubleshooting on analyzers.
- Maintains current knowledge of relevant technologies as assigned.

Plexus, Buffalo Grove, IL - Contracted for Goldstar Solutions, Bannockburn, IL Nov. 2011 to Feb. 2012

SMT Repair Technician

- Reworked PCB's with SMD components on leaded and RoHs (lead-free) PCB's

Panasonic, Elgin, IL - Contracted for Randstad Staffing, Elgin IL Nov. 2011 to Feb. 2012

Electronic Repair Technician

- Performed troubleshooting and repair to the component level.
- Repaired video PCB's for plasma and LCD flat panel televisions.
- Thoroughly tested PCB's to verify the integrity of the repair.

Mitsubishi, Vernon Hills, IL - Contracted for Goldstar Solutions, Bannockburn, IL June 2011 to Oct. 2011

Electronic Repair Technician

- Component level troubleshooting and repair on Variable Frequency drives and Inverter drives
- Recovered and restored customer parameters on these drives when possible
- Processed drives through the SAP inventory control system.

Plexus, Buffalo Grove, IL - Contracted for Goldstar Solutions, Bannockburn, IL Jan. 2011 to May 2011

Production Associate

- Performed post-wave quality inspection and repair of PCB's.
- Currently certified to IPC-A-610E specifications.

Motorola, Schaumburg, IL - Contracted for Insight Global, Des Plaines, IL Jan. 2010 to Dec. 2010

Electronic Repair Technician

- Repaired PCBs with surface mount and thru-hole components on handheld radios, mobile emergency units and infrastructure boards.
- Trained on Finetech BGA replacement machine.

IPC Automation, McHenry, IL - Contracted for Express Employment Professionals, Crystal Lake, IL June 2009 to July 2009

Electronic Technician

- Performed functional testing and adjustment of Mobile Climate controls.

Precision Zone, Wheeling, IL July 2008 to May 2009

Technician

- Component level troubleshooting and repair of high voltage industrial drives
- Tested per written procedures.

Technical Concepts, Mundelein, IL – Contracted for The BECO Group, Park Ridge, IL Apr. 2008 to June 2008

Technician

- Testing and troubleshooting on various automated washroom fixtures, including soap dispensers, flushers, and aerosol fragrance dispensers

MBX Systems, Wauconda, IL May 2007 to Nov. 2007

Builder

- Assembled and tested servers. Added components, including RAM, CPU and hard drives, and wired the servers.

Baxter Healthcare, Buffalo Grove, IL - Contracted 2 yrs./Permanent 5 yrs. Oct. 2000 to May 2007

Technician

- Repaired Colleague and Flogard volumetric infusion pumps
- Performing diagnostics on the Colleague pumps.
- Followed extensive FDA required testing to ensure each pump met specifications for safety and reliability
- Volunteered to assist engineering with ESD testing on Colleague pumps to locate sources of a set of failure codes and determine solutions.

- Tested internal pump signals to establish the effect of ESD on selected components.
- Performed the testing at Underwriters Laboratories (UL), testing ESD compatibility on various configurations of pumps, including software fixes.

EDUCATION

ITT Technical Institute, Hoffman Estates, Illinois Graduated with a Bachelor's degree, with honors, in Electronic Engineering Technology

College of Lake County, Grayslake, Illinois Graduated with an Associate degree in Electronic Engineering Technology

Sterling School of Drafting and Design Certificate, Auto CAD 2000 Level I and II

HOBBIES AND INTERESTS

Hold an Amateur Radio license, General Class

July 2022

Maintain a network of Raspberry Pi's and other computers on a home network, with a focus on the Linux command line.

May 2015 to Present

Podcaster and contributor to Hobby Public Radio shows

December 2015 to Present
